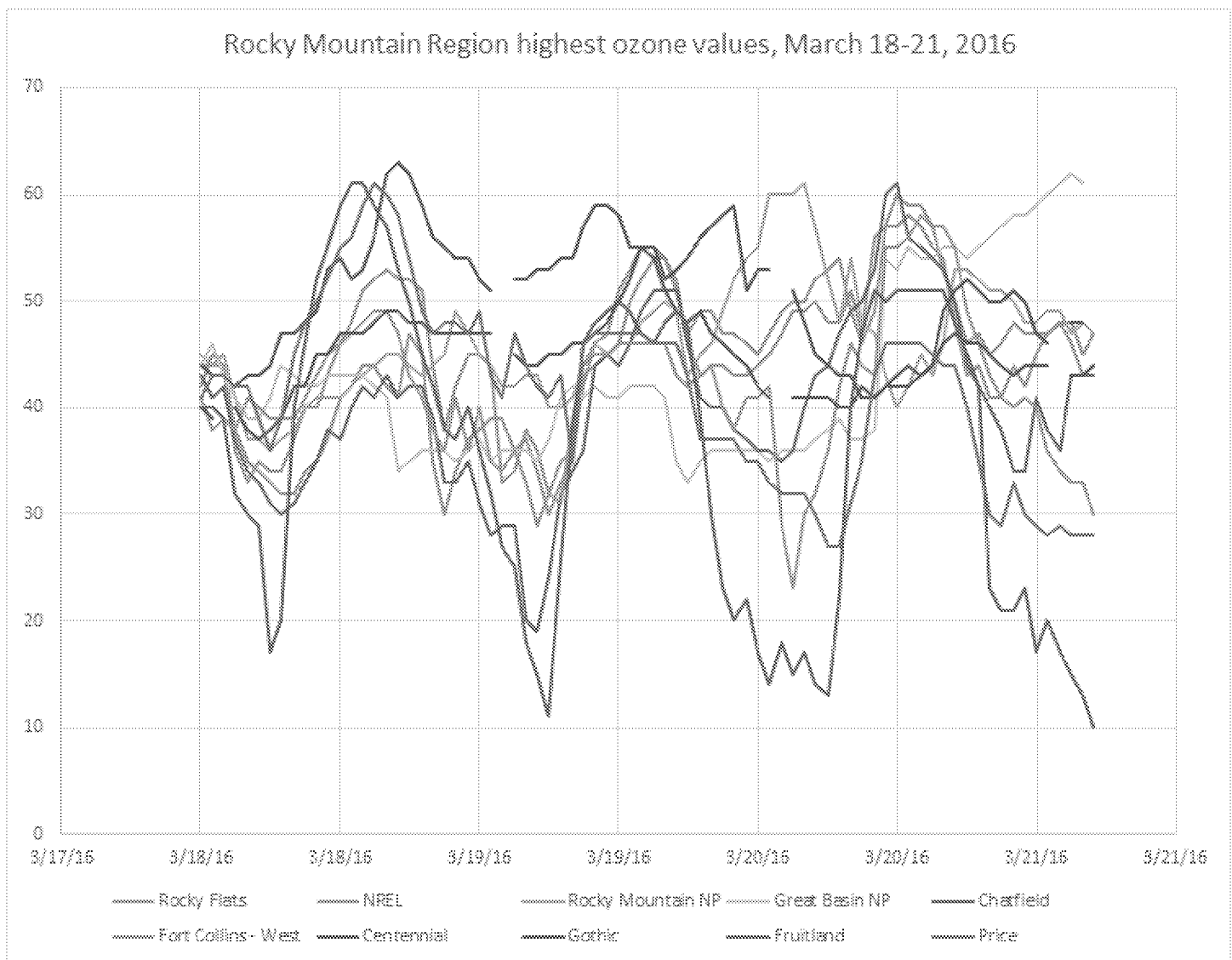


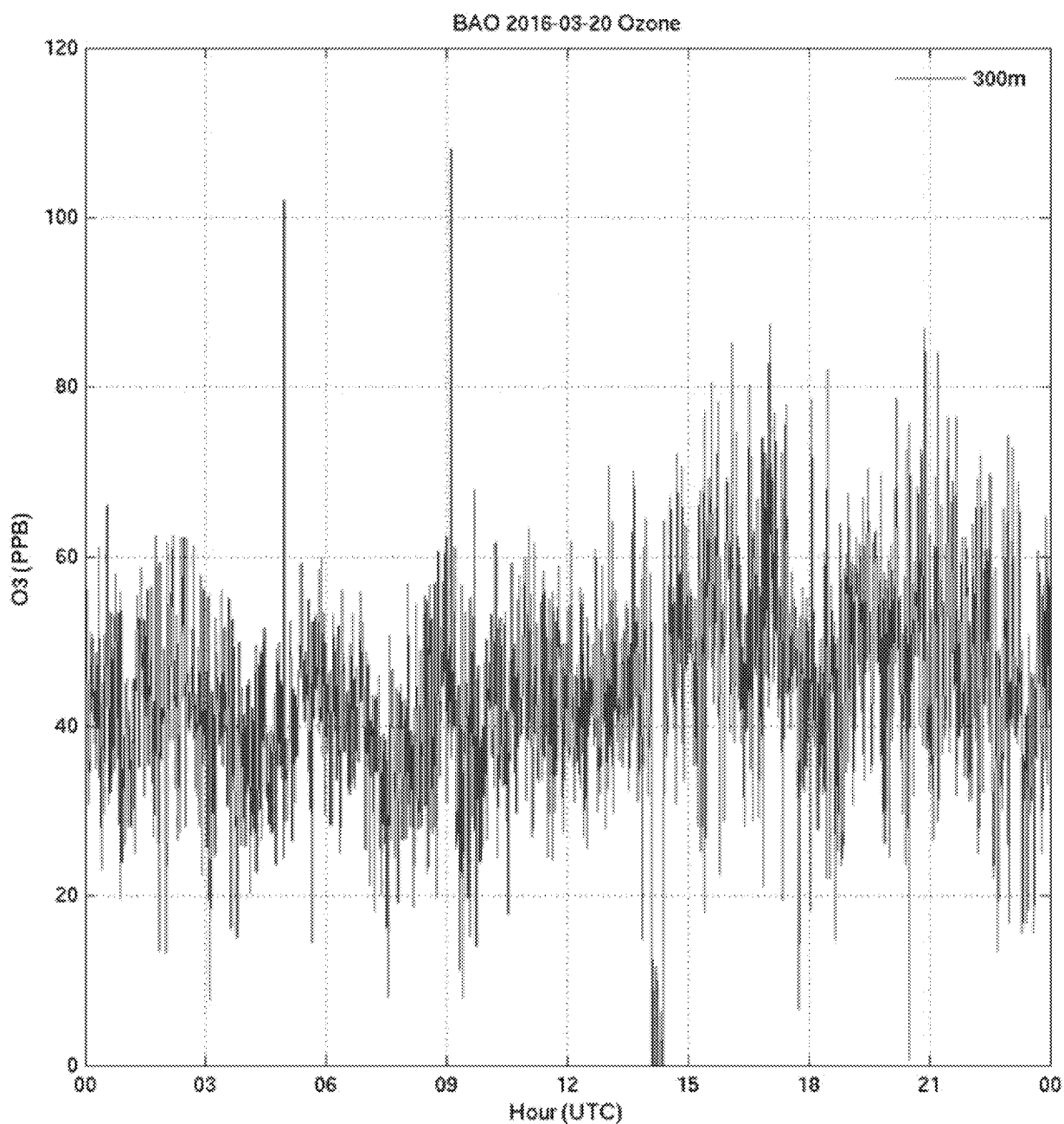
## Message

**From:** Payton, Richard [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B05F3A57A2C24A16AF33518E56451BF7-PAYTON, RICHARD]  
**Sent:** 3/21/2016 2:18:22 PM  
**To:** Patrick Reddy [Personal Matters / Ex. 6]; Irina Petropavlovskikh - NOAA Affiliate [irina.petro@noaa.gov]; Brad Pierce - NOAA Federal [brad.pierce@noaa.gov]; Audra McClure - NOAA Affiliate [Audra.mcclure@noaa.gov]; Tonnesen, Gail [Tonnesen.Gail@epa.gov]; Andrew Langford-NOAA Federal [andrew.o.langford@noaa.gov]; Gordon Pierce - CDPHE [gordon.pierce@state.co.us]; Landes - CDPHE, Scott [scott.landes@state.co.us]  
**Subject:** RE: Stratospheric Intrusion on March 20

Highest surface reading was 61 ppb at Rocky Mountain NP at 4:00 am and at Chatfield State Park in south Denver metro at 12:00 pm. Gothic was up to 63 ppb at 3:00 am this morning. Gothic also hit 63 ppb at 5:00 pm on Friday, with eastern Utah at 61 ppb (Price and Fruitland) earlier that afternoon. Erie Tower was also in the low to mid-60 ppb range when Chatfield peaked yesterday.



BAO Erie Tower



These data have not been quality controlled and are not to be used without permission of NOAA/ESRL/GMD

Richard Payton  
EPA Region 8 Air Quality Monitoring  
(303) 312-6439

**From:** Patrick Reddy [mailto: ] Personal Matters / Ex. 6

**Sent:** Monday, March 21, 2016 8:13 AM

**To:** Irina Petropavlovskikh - NOAA Affiliate <irina.petro@noaa.gov>; Brad Pierce - NOAA Federal <brad.pierce@noaa.gov>; Audra McClure - NOAA Affiliate <Audra.mcclure@noaa.gov>; Tonnesen, Gail <Tonnesen.Gail@epa.gov>; Andrew Langford-NOAA Federal <andrew.o.langford@noaa.gov>; Payton, Richard <Payton.Richard@epa.gov>; Gordon Pierce - CDPHE <gordon.pierce@state.co.us>; Landes - CDPHE, Scott

<scott.landes@state.co.us>

**Subject:** Stratospheric Intrusion on March 20

Hi all,

It does look like there was an intrusion on the 20th. The following IDEA stratospheric intrusion forecast product from March 19 captures this event and shows a narrow streamer of high O3 aloft moving through Wyoming on its way to Colorado.

[http://cimss.ssec.wisc.edu/idea-i/Usozone/index.php?action=view\\_animation&params=sensor,node,date&param\\_values=CrIS,Descend,20160319](http://cimss.ssec.wisc.edu/idea-i/Usozone/index.php?action=view_animation&params=sensor,node,date&param_values=CrIS,Descend,20160319)

Scott Landes at CDPHE has also completed an analysis that shows high IPV and low RH aloft. The CDPHE MInes Peak site had O3 at about 65 to 70 ppb. Gothic showed no signs of an intrusion, and impacts were minimal on the plains.

Pat